

PHILIP MORRIS U.S.A.
RESEARCH CENTER

(to be supplied later as needed)

Keywords

No

Project No. 1705 Book 1

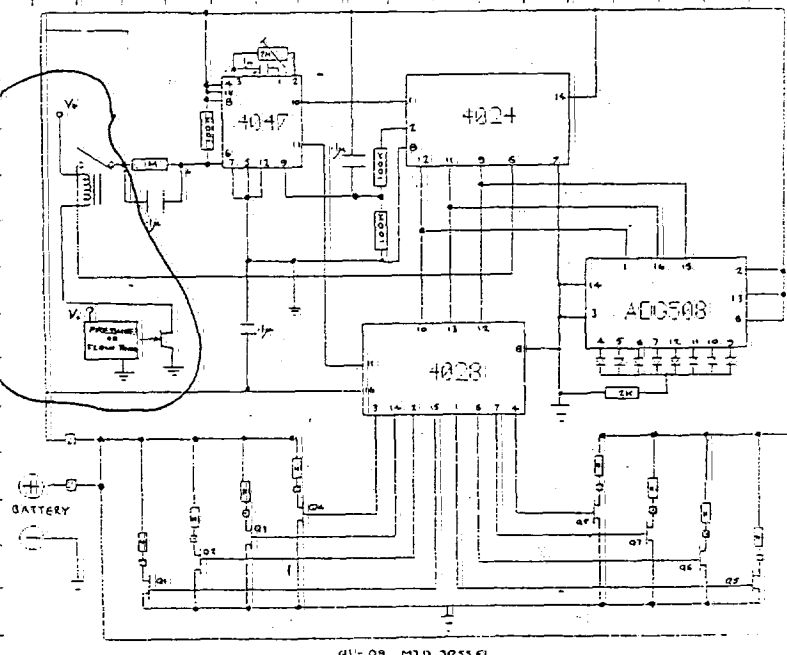
Cross-reference: Book _____ page(s) _____

TESTS OF THE CURRENT LEVEL FLAVOR DOT CONTROL CIRCUIT WITH PUFF ACTUATION:
VIA A PRESSURE SENSOR OR A HOTWIRE ANEMOMETER FLOW SENSOR.

The components used in the test were as follows:

- 1-Current level flavor dot electronic control circuit with automatic sequencing.
- 1-Micro Switch Model 163PC01D36 pressure sensor with a range of -5" of water.
- 1-TSI Model# 8450-52E-V hotwire anemometer.
- 1-Battery pack of 4 N-50AAA NICAD batteries manufactured by Sanyo.
- 1-Heater array with substrate.

It was demonstrated by this test that the Beta Article, either Flavor Dot or Pulsed Bed version can be actuate by the consumer puffing as opposed to having to push a button. The application of the pressure and flow transducers was accomplished simply by replacing the pushbutton (see diagram). As a heater is activated via the pressure or flow transducer, through the electronic circuit, powered by batteries, aerosol was produced and inhaled. The lag imposed by the response time of the instruments and heater (heat up time) was considered to be acceptable.



2020051769

Others present who
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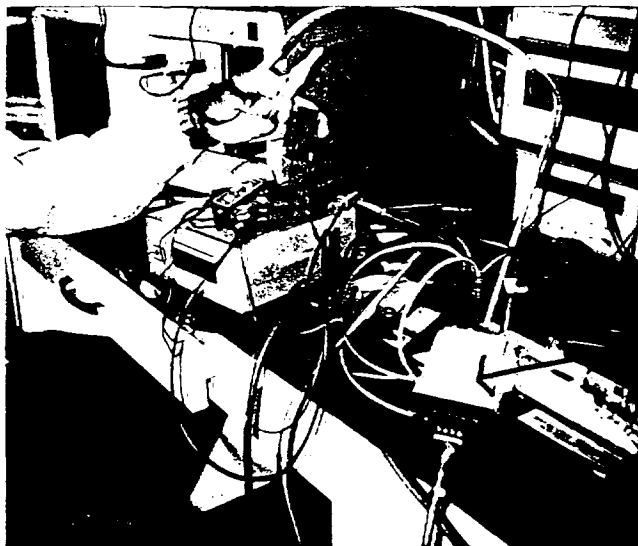
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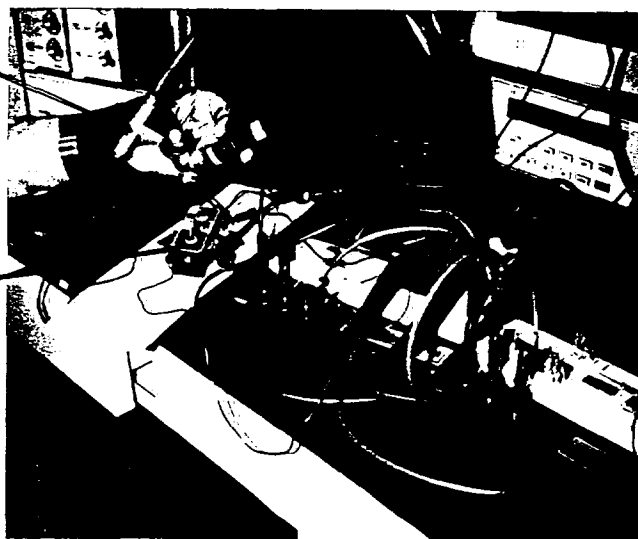
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8450-52E-V
HOTWIND ANEMOMETER

Ashteydase with
TSC with batteries



HEATED ARRAY
WITH SUBSTRATE

PULSED BED
ELECTRONIC
CONTROL CIRCUIT

Ashteydase with
pulsed bed with batteries

2020051770

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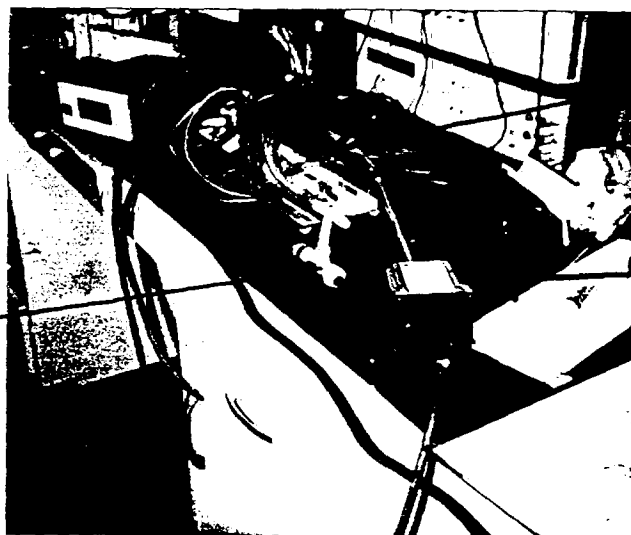
Keywords

No 7

Project No. 1705 Book 1

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Puffing
Assembly/
with "FLAVOR
SUBSTANCE"

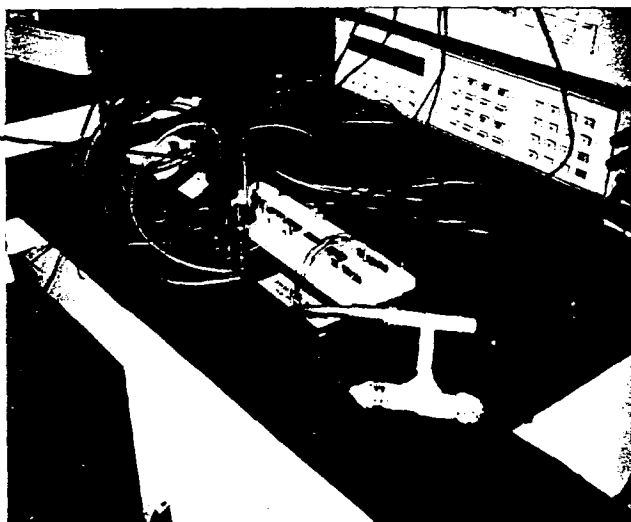


Control Circuit
(FLAVOR NOT)

TSI MODEL
8450-52E-V
HOT WIRE ANEMOMETER

TSI w/ batteries

MODEL
163PC01039
PRESSURE
SENSOR



w/ battery
(A) NSO's

pressure
actuated

Others present who
observed or performed
any of the work are:

Above entries by

Wynne Shaw
(Signature)

on

11-1-88
(Date)

2020051772